

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-418-28

Relating to Exemptions Under Section 27156
of the California Vehicle Code

Roush Industries
Flash Pack, Flash Pack with Cold Air Kit, and Flash Pack with Cold Air Kit and Exhaust
Kit

Pursuant to the authority vested in the Air Resources Board by Section 27156 of the
Vehicle Code; and

Pursuant to the authority vested in the undersigned by Section 39515 and Section 39516
of the Health and Safety Code and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That the installation of the Flash Pack and Power
Pack Kits (Flash Pack with Cold Air Kit, and Flash Pack with Cold Air Kit and Exhaust Kit),
manufactured and marketed by Roush Industries of 12249 Levan Road, Livonia, Michigan
48150, has been found not to reduce the effectiveness of the applicable vehicle pollution
control systems and, therefore, is exempt from the prohibitions of Section 27156 of the
Vehicle Code for the following vehicles listed in Exhibit A.

The Flash Pack, Flash Pack with Cold Air Kit, and Flash Pack with Cold Air Kit and
Exhaust Kit consists of the following main components based on title: Flash Pack is a
new ECU calibration with no user adjustments; Cold Air Kit includes open element air
filter with bottom housing along with air intake tubing from throttle body to filter, the stock
manifold air pressure sensor is retained in its stock location and orientation. New exhaust
system is a catalyst back muffler and exhaust tips. **Installation of the Cold Air Kit may
require the removal of the stock air filter housing and all intake air tubing. If the
stock air filter housing contains the vehicle's tune-up & emissions control decal, a
replacement decal must be placed in a similar location.**

This Executive Order is valid provided that the installation instructions for the Flash Pack,
Flash Pack with Cold Air Kit, and Flash Pack with Cold Air Kit and Exhaust Kit will not
recommend tuning the vehicle to specifications different from those of Roush Industries.

Changes made to the design or operating conditions of the Flash Pack, Flash Pack with
Cold Air Kit, and Flash Pack with Cold Air Kit and Exhaust Kit, as exempt by the Air
Resources Board, which adversely affect the performance of the vehicle's pollution
control system shall invalidate this Executive Order.

This Executive Order shall not apply to any Flash Pack, Flash Pack with Cold Air Kit, and
Flash Pack with Cold Air Kit and Exhaust Kit advertised, offered for sale, sold with, or
installed on a new motor vehicle prior to or concurrent with transfer to an ultimate
purchaser.

Marketing of the Flash Pack, Flash Pack with Cold Air Kit, and Flash Pack with Cold Air Kit and Exhaust Kit using any identification other than that shown in this Executive Order or marketing of the Flash Pack, Flash Pack with Cold Air Kit, and Flash Pack with Cold Air Kit and Exhaust Kit for an application other than those listed in this Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board.

This Executive Order does not constitute any opinion as to the effect the use of the Flash Pack, Flash Pack with Cold Air Kit, and Flash Pack with Cold Air Kit and Exhaust Kit may have on any warranty either expressed or implied by the vehicle manufacturer.

This exemption is issued based on submitted emissions test data, from the SEMA Garage, Diamond Bar, California, on a 2015 model year Ford 2.3L Turbo Mustang certified to the LEV 3 ULEV 70 emission standards, modified with the worst case kit, Flash Pack with Cold Air Kit and Exhaust Kit, and tested using the Cold-Start CVS-75 Federal Test Procedure (FTP) test cycle and the Supplemental Federal Test Procedure (SFTP US06/SC03 (AC2 test + 20%)) test cycle.

Useful Life FTP Emission Level (w/ df applied, 2 test avg)	NMOG+NOx	CO	HCHO
	0.051	0.4	0.002
Standards	0.070	1.7	0.004
Useful Life SFTP Emission Level (Composite w/ df)	NMOG+NOx	CO	
	0.045	0.5	
Standards	0.090 (BIN)	4.2	

Horsepower gain was measured at 62hp.

Test results showed that the worst case configuration did not cause exhaust emissions to exceed the applicable emission standards during the FTP and SFTP. This Executive Order is also based on the On-Board Diagnostic II (OBD II) testing conducted on the same test vehicle. The Flash Pack with Cold Air Kit and Exhaust Kit when installed on the test vehicle did not affect the vehicle's ability to perform its OBD II monitoring. Similar results would be expected from the other kits listed.

The Air Resources Board reserves the right in the future to review this Executive Order and the exemption provided herein to assure that the exempted add-on or modified part continues to meet the standards and procedures of Title 13, California Code of Regulations, Section 2222, et seq.

THIS EXECUTIVE ORDER DOES NOT CONSTITUTE A CERTIFICATION, ACCREDITATION, APPROVAL, OR ANY OTHER TYPE OF ENDORSEMENT BY THE AIR RESOURCES BOARD OF ANY CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OR ANY ALLEGED BENEFITS OF ROUSH INDUSTRIES' FLASH PACK, FLASH PACK WITH COLD AIR KIT, AND FLASH PACK WITH COLD AIR KIT AND EXHAUST KIT.

No claim of any kind, such as "Approved by the Air Resources Board", may be made with respect to the action taken herein in any advertising or other oral or written communication.

Violation of any of the above conditions shall be grounds for revocation of this order. The order may be revoked only after a ten-day written notice of intention to revoke the order, in which period the holder of the order may request in writing a hearing to contest the proposed revocation. If a hearing is requested, it shall be held within ten days of receipt of the request and the order may not be revoked until a determination is made after the hearing that grounds for revocation exist.

Executed at El Monte, California, this 9 day of June 2017.



Annette Hebert, Chief
Emissions Compliance, Automotive Regulations and Science Division

Exhibit A

Flash Pack	421989	2015-17	Mustang		
Power Pack Level I (Tune + CAK)	421990			4	2.3L Ecoboost
Power Pack Level 2 (Tune + CAK + Exh)	421991				
Flash Pack (Calibration Only)	421995				
Power Pack Level 1 (Tune + CAK)	421999			6	3.7L
Power Pack Level 2 (Tune+ CAK + Exh)	422000				
Flash Pack (Calibration Only)	421995			8	5.0L
Flash Pack (Calibration Only)	422002		F 150		
Power Pack Level 1 (Tune + CAK)	422003			6	3.5L
Power Pack Level 2 (Tune+ CAK + Exh)	422004				
Flash Pack (Calibration Only)	422002				
Power Pack Level 1 (Tune+ CAK)	422006			6	3.5L Ecoboost
Power Pack Level 2 (Tune+ CAK + Exh)	422007				
Flash Pack (Calibration Only)	422002				
Power Pack Level 1 (Tune+ CAK)	422009			8	5.0L
Power Pack Level 2 (Tune + CAK + Exh)	422010				

